

Serial No.: 10/655,227
Inventor(s): Morin et al.

U.S. PTO Customer No. 25280
Case No.: 5514A

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application of: Morin et al.

Serial Number: 10/655,227

Filed: September 4, 2003

For: **LOW-SHRINK POLYPROPYLENE TAPE FIBERS COMPRISING
HIGH AMOUNTS OF NUCLEATING AGENTS**

Group Art Unit: 1774

Examiner: Edwards, Newton

Commissioner for Patents
PO Box 1450
Alexandria, VA 22313-1450

Certificate of Mailing Under 37 CFR § 1.8

I hereby certify that this correspondence, and all correspondence referenced herein as being enclosed with this correspondence, is being deposited with the United States Postal Service in an envelope addressed to "Commissioner for Patents, Washington, D.C. 20231" with sufficient postage on the following

Date: April 1, 2004

Signature: Kerry A. Lantier

Name: Kerry A. Lantier

Sir:

INFORMATION DISCLOSURE STATEMENT

In compliance with Applicant's duty under 37 CFR §1.56, Applicant hereby submits this Information Disclosure Statement filed according to the provisions of 37 CFR §1.97 and §1.98.

Enclosed herewith is Form PTO-1449 (Modified) which lists various references submitted by Applicant for consideration. Also, enclosed herewith are copies of each of the references listed in the Form PTO-1449 (Modified). The Examiner is requested to review each of the references, indicate that the references were reviewed by initialing the Form PTO-1449 (Modified) for each reference, and returning a copy of the initialed Form PTO-1449 (Modified) to the Applicant.

This information disclosure statement is being submitted after three months of the filing date of the application and after the first Office action on the merits, but before the mailing of a final action, a notice of allowance, or an action that closes the prosecution in the application. As such, Applicant:

- ☐ Respectfully submits that the each item of information contained herein was first cited in a any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement and respectfully requests consideration of this Information Disclosure Statement under 37 CFR §1.97(c)(1) and (e)(1).
- ☒ Respectfully requests consideration of this Information Disclosure Statement under 37 CFR §1.97(c)(2) and the Commissioner is hereby

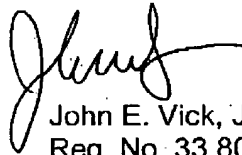
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authorized to withdraw the fee set forth in 37 CFR §1.17(p) from our
Deposit Account 04-0500.

In the event that there are fees associated with the filing of these papers, the
Commissioner is hereby authorized to withdraw such fees from our Deposit Account 04-
0500

Respectfully Submitted,



John E. Vick, Jr.
Reg. No. 33,808

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Form PTO-1449 (Modified) INFORMATION DISCLOSURE STATEMENT IN A PATENT APPLICATION Sheet <u>1</u> of <u>3</u>		Serial No.: 10/655,227		Filing Date: September 4, 2003		
		Inventor(s): Morin et al.				
		Group Art Unit: 1774		Examiner: Edwards, Newton O.		
		US PTO Customer No: 25280		Case No.: 5514A		
U.S. PATENT DOCUMENTS						
EXAMINER INITIALS	IDENTIFIER	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS
	AA	5,231,126	7-27-93	Shi et al	524	296
	AB	5,512,357	4-30-96	Shimura et al.	428	283
	AC	5,753,736	5/19/88	Bhat	524	287
	AD	6,135,987	10/24/00	Tsai et al.	604	365
	AE	6,162,887	12/19/00	Yamada et al.	526	351
	AF	6,210,802	4-3-01	Risch et al.	428	398
	AG	6,218,011	4/17/01	Raetzsch et al.	428	394
	AH	6,231,976	5-15-01	Dean et al.	428	373
	AI	6,238,615	5-29-01	Kobayashi et al.	264	537
	AJ	6,261,677	7-17-01	Tsai et al.	428	221
	AK	6,284,370	7-4-01	Fujimoto et al.	428	221
	AL	6,300,415	10-9-01	Okayama et al.	525	191
	AM	2001/0040320	11-15-01	Kobayashi et al.	264	537
	AN	2001/0048179	12-6-01	Stewart et al.	264	211
	AO	2002/0002241	1-3-02	Raetzsch et al.	123	556
	AP	4,016,118	4/5/77	Hamada et al.	260	17.456
	AQ	4,463,113	7/31/84	NaKahara et al.	524	117
	AR	5,049,605	9/17/91	Rekers	524	108
	AS	5,342,868	8/30/94	Kimura et al.	524	108
	AT	5,798,167	8/25/98	Connor et al.	428	171
	AU	5,811,045	9/22/98	Pike	264	168
	AV	6,102,999	8/15/00	Cobb, III et al.	106	243
	AW	6,127,470	10/3/00	Cobb, III et al.	524	367
	AX	6,270,608	8/7/01	Vair, Jr. et al.	156	176
	AY	6,207,600	3/2001	Nakajima et al.	442	311
	AZ	5,945,211	8/99	Bersted et al.	428	364
	BA	6,127,440	10/3/00	Sanyasi et al.	521	74
	BB	6,541,554	4/1/03	Morin et al.	524	387

	BC	4,560,734	12/24/85	Fujishita et al.	526	142
	BD	6,203,881	3/20/01	Higgins	428	95
	BE	5,945,215	9/12/97	Bersted et al.	428	364
	BF	6,559,216	5/03	Zhao et al.	524	336
	BG	4,522,857	6/11/85	Higgins	428	95
	BH	5,540,968	7/30/96	Higgins	428	95
	BI	5,545,276	8/13/96	Higgins	156	79
	BJ	5,948,500	9/7/99	Higgins	428	95
	BK	4,171,395	10/16/79	Tillotson	428	95
	BL	4,132,817	1/2/79	Tillotson	427	244
	BM	4,512,831	4/23/85	Tillotson	156	78
	BN	4,116,626	9/26/78	Varner	4	149
	BO	5,136,520	8/4/92	Cox	364	470
	BP	5,208,592	5-4-93	Johnson, Jr.	341	63
	BQ	6,534,574	3/03	Zhao et al.	524	284
	BR	6,559,211	5/03	Zhao et al.	524	285
	BS	6,656,404	12/03	Morin	264	210.5
	BT	6,110,588	8/29/00	Perez et al.	428	359
	BU	6,420,024	7/16/02	Perez et al.	428	359
	BV	6,358,450	3/19/02	Sun	264	178
	BW	5,912,292	6/15/99	Sun	524	301
Examiner:				Date Considered:		

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Form PTO-1449 (Modified)		Serial No.: 10/655,227	Filing Date: September 4, 2003
INFORMATION DISCLOSURE STATEMENT IN A PATENT APPLICATION		Inventor(s): Morin et al.	
		Group Art Unit: 1774	Examiner: Edwards, Newton O.
		US PTO Customer No: 25280	Case No.: 5514A
Sheet <u>2</u> of <u>3</u>			
OTHER DOCUMENTS			
EXAMINER INITIALS	IDENTIFIER	INCLUDE: AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.	
	BX	Patent abstracts of Japan; publication number 11-061554; date of publication of application 05.03.1999; Highly heat-resistant polypropylene fiber; English translation	
	BY	Patent abstracts of Japan; publication number 11-181619; date of publication of application 06.07.1999; Highly heat-resistant polypropylene fiber and fiber-reinforced cement molded product using the same; English translation	
	BZ	Patent abstracts of Japan; publication number 2001-081628; date of publication 27.03.2001; Flat yarn for base cloth of needle-punched carpet; English translation	
	CA	Patent abstracts of Japan; publication number 2002-302825; date of publication 18.10.2002; Highly-resistant polypropylene fibers; English translation	
	CB	Article; Journal of applied polymer science, vol. 62, 1965-1975 (1996) John Wiley & Sons, Inc.; Spruiell et al.	
	CD	Article; The effects of pigments on the development of structure and properties of polypropylene filaments; Antec '91; Lin et al.	
	CE	Article; The role of crystallization kinetics in the development of the structure and properties of polypropylene filaments; © 1993 John Wiley & Sons, Inc.; CCC 0021-8995/93/040623-9	
	CF	Article; Study on the formation of b-crystalline from isotactic polypropylene fiber; fiber and films, Intern. Polymer Processing VI, 1991; Chen et al.	
	CG	Article; Heterogeneous Nucleation of Polypropylene and Polypropylene Fibers; Marcincin et al.; 1994	
Examiner:		Date Considered:	

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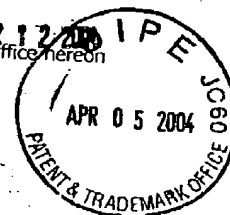
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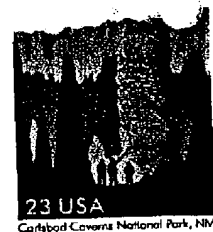
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Official date stamp of the United States Patent and Trademark Office hereon
acknowledges receipt of:

Information Disclosure Statement: 2 pages
PTO form-1449 (Modified): 4 pages
Prior Art Documents

RE: U. S. Patent Application Serial No.: 10/665,227
Applicant: Morin et al.
Filed: September 4, 2003
Title: LOW-SHRINK POLYPROPYLENE TAPE FIBERS
COMPRISING HIGH AMOUNTS OF NUCLEATING AGENTS
Case Number: 5514A
Attorney: JEV
Date: April 1, 2004





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